

Attorney Docket No. AFFY-003/26US



PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Stephen P.A. FODOR *et al.* Confirmation No.: 3654  
Serial No.: 10/694,541 Group Art Unit: 1634  
Filed: October 28, 2003 Examiner: Jeanine A. Goldberg  
For: **ARRAYS FOR DETECTING NUCLEIC ACIDS**

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U.S. Patent and Trademark Office  
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401 Dulany Street  
Alexandria, VA 22314

### INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08 for the above-identified patent application.

- ☒ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
  - ☐ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
  - ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. § 1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ Check No. \_\_\_ in the amount of \$\_\_\_ for the total fee is attached.
- ☒ A return receipt postcard is also enclosed.
- ☐ Please charge \$\_\_\_\_\_ to Deposit Account No. 50-1283 for the total fee. This paper is being submitted in duplicate.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-1283.

Dated: June 20, 2007

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Respectfully submitted,

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Reg. No. 43,210



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Stephen P.A. FODOR *et al.* Confirmation No.: 3654

Application No.: 10/694,541

Group Art Unit: 1634

Filed: October 28, 2003

Examiner: Jeanine A. Goldberg

For: Arrays for Detecting Nucleic Acids

Commissioner for Patents  
U.S. Patent and Trademark Office  
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**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97(b)**

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,  
Applicant(s) hereby submits the following information in conformance with 37 C.F.R. §§1.97  
and 1.98.

- ☐ Pursuant to 37 C.F.R. §1.98, copies of documents 14-31 cited in the attached Form PTO-1449 are enclosed.
- ☐ Copies of the remaining publications listed on the attached Form PTO-1449 are not being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial Nos.:  
to which the above-identified application claims priority under 35 U.S.C. §120.
- ☐ Copies of documents that were not submitted in the above-mentioned related United States Patent Applications may be found in related United States Patent Application Nos.:  
**Should the Examiner be unable to locate a document, a copy will be provided upon request.**
- ☒ No copies of any U.S. patents or U.S. patent application publications listed on the attached Form PTO-1449 are being provided in accordance with MPEP 609.04(a).

- ☐ Publication(s) \_\_\_ listed on the attached Form PTO-1449 were cited in a foreign search or examination report corresponding to \_\_\_ application serial no. \_\_\_ and mailed on \_\_\_.
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) \_\_\_. English language publication \_\_\_ (copy enclosed) claims priority from this non-English publication.
- ☒ Applicants bring the following additional information to the Examiner's attention: a request for *ex parte* reexamination filed by a third party against United States Patent Number 5,445,934 assigned to Affymetrix. The independent claims of the '934 patent have been previously provided as Appendix B to the IDS filed in the instant application on May 4, 2007. The claims are generally directed to a substrate or array comprising  $10^3$  or more groups of oligonucleotides attached thereto. The following references have been cited in the request for reexamination as relevant to the patentability of various claims under 35 U.S.C. § 103.

**Claims 1-10 of US 5,445,934 are alleged to be invalid under 35 U.S.C. § 103 based on:**

- EP 0 063 810 in view of Palmer, Charged Particle Accelerator Grating, U.S. Statutory Invention Registration H116; US 6,054,270; Behlke and Devor, "Chemical Synthesis of Oligonucleotides," [http://www.idtdna.com/support/technical/TechnicalBulletinPDF/Chemical\\_Synthesis\\_of\\_Oligonucleotides.pdf](http://www.idtdna.com/support/technical/TechnicalBulletinPDF/Chemical_Synthesis_of_Oligonucleotides.pdf), last visited May 29, 2007; and/or WO 91/07087

**Claims 1 and 7 of US 5,445,934 are alleged to be invalid under 35 U.S.C. § 103 based on:**

- PCT/GB89/00460 (WO 89/10977) in view of US 4,728,591; Ghosh, Nucl. Acids Res. 15:5353 (1987); Palmer, Charged Particle Accelerator Grating, U.S. Statutory Invention Registration H116; and/or US 4,994,373

**Claims 1-5, 7, 8 and 10 of US 5,445,934 are alleged to be invalid under 35 U.S.C. § 103 based on:**

- 4,562,157, in view of Sacra Blue Online, <http://www.sacpcug.org/archives/20year/timeline-a.html>, last visited May 29, 2007; Olympus Microscopy Resource Center, <http://www.olympusmicro.com/micd/galleries/chips.intel486dxa.html>, last

visited May 29, 2007; Miller, J.P., "Intel Introduces Powerful 80486 Chip, But High Price May Limit Initial Sales" The Wall Street Journal Online, Apr. 11, 1989; Gelsinger et al., "Microprocessors Circa 2000", IEEE Spectrum, October 1989, 43; US 5,348,855; Khrapko et al., FEBS Lett. 256:118 (1989); and/or Innis et al., "DNA Sequencing with *Thermus aquaticus* DNA Polymerase and Direct Sequencing of Polymerase Chain Reaction-Amplified DNA," Proc. Natl. Acad. Sci. USA, (1988) 85:9436

**Should the Examiner wish to review any documents in Applicants' possession related to this action, the Examiner is invited to contact the undersigned and any documents requested will be forwarded.**

- [x] Applicants again bring to the Examiner's attention pending Civil Action No. 04-901-JJF in the U.S. District Court for the District of Delaware. Applicants note that this civil action involves multiple patents, including U.S. Patent Nos. 6,355,432 and 6,646,243, owned by the assignee of this application, and the action is stylized as *Affymetrix v. Illumina*. The claims of the '432 patent and some of the claims of the '243 patent are generally directed to collections of encoded beads which have binding polymers of different target specific sequence attached thereto or to substrates comprising beads, spheres or particles comprising nucleic acids attached thereto.

Documents 1-8 and 14-23 were cited during the above mentioned civil actions.

**Should the Examiner wish to review any documents in applicants possession related to this action, the Examiner is invited to contact the undersigned and any documents requested will be forwarded.**

- [x] Applicants would like to clarify that some of the documents filed with the Information Disclosure Statement of May 4, 2007 were incorrectly scanned and entered into the Image File Wrapper system of the United States Patent and Trademark Office as "Certified Copy of Foreign Priority Application." The table below is provided to the Examiner to detail the correct description of the mislabeled documents. Applicants would like to also point out that there may be additional errors in the Image File wrapper due to the scanning at the USPTO. Applicants will provide extra copies of any reference cited in the May 4, 2007 IDS as submitted should the Examiner require one because of these errors.

<u>Mail Room Date</u>	<u>Document Description</u>	<u>Document Category</u>	<u>Page Count</u>	<u>IDS citation</u>
05-04-2007	Certified Copy of Foreign Priority Application	PROSECUTION	50	Document 1: "07/362,901"

<u>Mail Room Date</u>	<u>Document Description</u>	<u>Document Category</u>	<u>Page Count</u>	<u>IDS citation</u>
05-04-2007	Certified Copy of Foreign Priority Application	PROSECUTION	103	Document 2: "07/492,462"
05-04-2007	Certified Copy of Foreign Priority Application	PROSECUTION	39	Document 5: "07/874,849"

This Information Disclosure Statement is filed within any one of the following time periods:

- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in this international application;
- ☐ before the mailing date of a first office action on the merits; or
- ☒ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO-1449s to the undersigned. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 50-1283.

Dated: 6-20-2007

**USPTO Customer No. 000033522**

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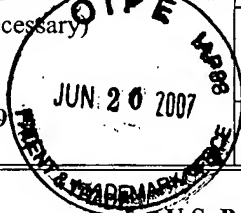
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Respectfully submitted,  
COOLEY GODWARD LLP

By:

Michael S. Tuscan  
Michael S. Tuscan, Ph.D.  
Reg. No. 43,210

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)	<b>Attorney Docket No.</b> AFFY-003/26US	<b>Application No.</b> 10/694,541
	<b>Applicants:</b> Stephen P.A. FODOR <i>et al.</i>	
	<b>Page 1 of 2</b>	
<b>PTO Form 1449</b>	<b>Filing Date:</b> October 28, 2003	<b>Group Art Unit:</b> 1634



**U.S. PATENT DOCUMENTS**

Initial	Document No.	Date	Name	Class	Sub-Class	Filing Date
	1.	4867733	06/06/1989	Shiraishi et al.		
	2.	6210894	04/03/2001	Brennan		
	3.	6221653	04/24/2001	Caren et al.		
	4.	6235483	05/22/2001	Wolber et al.		
	5.	6255053	07/03/2001	Lichtenwalter		
	6.	6346423	02/12/2002	Schembri		
	7.	6458583	10/01/2002	Bruhn et al.		
	8.	07/435,316		Barrett et al.		Filed 11/13/1989
	9.	6852490	02/08/2005	Gentalen et al.		
	10.	6582908	06/24/2003	Fodor et al.		
	11.	6284460	09/04/2001	Fodor et al.		
	12.	6054270	04/25/2000	Southern		
	13.	H116	09/02/1986	Palmer		

**FOREIGN PATENT DOCUMENTS**

Document No.	Date	Country	Class	Sub-Class	Translation
14.	WO 84/01031 A1	03/15/1984	WIPO		

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)**

Initial	Document No.
	15. Aller R, Elevitch F. Symposium on Computers in the Clinical Laboratory. Clinics in Laboratory Medicine 1983;3:1-254
	16. Ekins R, Chu F. Microarrays: their origins and applications. Tibtech 1999; 17:217-218
	17. Gesteland R. Notes on Russia (DOE 6-12)
	18. Hopes this issue jams every computer in the country. MAD Magazine April, 1978
	19. Human Genome III: The International Conference on the status and future of research on the Human Genome, Official Program and Abstracts, Oct. 21-23, 1991 (AVI_131963-132005)
	20. Khrapko et al. Improved Chips for Sequencing by Hybridization. 1991 (DOE 24-35)
	21. Report on Foreign Travel of Richard A. Sachleben, 1991 (DOE 16-23)
	22. Khorlin, et al., "An oligonucleotide matrix hybridization approach to DNA sequencing," Nucl. Acid Res. Symp. Ser. 24:191 (1991)

<b>Examiner</b>  51021 v1/DC	<b>Date Considered</b>  
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**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  <b>PTO Form 1449</b>	<b>Attorney Docket No.</b> AFFY-003/26US	<b>Application No.</b> 10/694,541
	<b>Applicants:</b> Stephen P.A. FODOR <i>et al.</i>	
	<b>Page 2 of 2</b>	
	<b>Filing Date:</b> October 28, 2003	<b>Group Art Unit:</b> 1634

Initial		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)
	23.	Lab Notebook pages 98-106 from Kay Lichtenwalter's lab notebook no. 1416. (From interference 105,089, but not in the pdf provided)
	24.	"Inkjet printer", <a href="http://en.wikipedia.org/wiki/Inkjet_printer">http://en.wikipedia.org/wiki/Inkjet_printer</a> , last visited May 29, 2007 (Wikipedia).
	25.	Bohlen et al., "Electron-Beam Proximity Printing-A New High Speed Lithography Method for Submicron Structures," IBM J. Res. Develop. (1982) 26:568
	26.	Sacra Blue Online, <a href="http://www.sacpcug.org/archives/20year/timeline-a.html">http://www.sacpcug.org/archives/20year/timeline-a.html</a> , last visited May 29, 2007.
	27.	Olympus Microscopy Resource Center, <a href="http://www.olympusmicro.com/micd/galleries/chips.intel486dxa.html">http://www.olympusmicro.com/micd/galleries/chips.intel486dxa.html</a> , last visited May 29, 2007.
	28.	Innis et al., "DNA Sequencing with Thermus aquaticus DNA Polymerase and Direct Sequencing of Polymerase Chain Reaction-Amplified DNA," Proc. Natl. Acad. Sci. USA, (1988) 85:9436.
	29.	Miller, J.P., "Intel Introduces Powerful 80486 Chip, But High Price May Limit Initial Sales", The Wall Street Journal Online, Apr. 11, 1989.
	30.	Gelsinger et al., "Microprocessors Circa 2000", IEEE Spectrum, October 1989, 43.
	31.	Behlke and Devor, "Chemical Synthesis of Oligonucleotides," <a href="http://www.idtdna.com/support/technical/TechnicalBulletinPDF/Chemical_Synthesis_of_Oligonucleotides.pdf">http://www.idtdna.com/support/technical/TechnicalBulletinPDF/Chemical_Synthesis_of_Oligonucleotides.pdf</a> , last visited May 29, 2007.

<b>Examiner</b>  51021 v1/DC	<b>Date Considered</b>  
<b>Examiner:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



- [x] Documents 6-7, 12-13, 16-19, 21, 23-30, 32-38, 40-46, 48-63, 66-68, 70-82, 84-86, 89-91, 93, 95-103, 105, 107-108, 111, 113-119, 121-128, 130-132, 135, 137, 139-142, 147-159, 163, 169, 184-216, 220-235, 239, 243, 245-251, 253-268, 270, 272, 274-297, 299-301, 303-307, 309, 312-323, 325-328, 332, 334-335, 337-340, 343-346, 349-350, 354-363, 366-370, 371-373, 375-388, 390-413, 415-418, 420-422, 424-431, 433-439, 441-455, 458-459, 464-469, 471, 475-477, 479-480, 482, 484-488 and 490-497 were cited in Civil Action Nos.C 98-03192 FMS, C98-4508 FMS (MEJ), C98-4507 FMS (MEJ) and C 00-3210 MJJ in the U.S. District Court for the Northern District of California San Francisco Division.
- [x] Documents 170-173 and 175 were cited by the Examiner in an Office Action mailed June 27, 2006, in Applicants' related U.S. Application no. 10/694,536.
- [x] Document 302 was cited by the Examiner in an Office Action mailed January 10, 2006, in Applicants' related U.S. Application no. 10/102,915.
- [x] Documents 1-5, 8-11, 14-15, 20, 22, 31, 39, 47, 64-65, 69, 83, 87-88, 92, 94, 104, 106, 109-110, 112, 120, 129, 133-134, 136, 138, 143-146, 160-162, 164-168, 170-179, 217-219, 236-238, 240-242, 244, 252, 269, 271, 273, 298, 302, 308, 310-311, 324, 329-331, 333, 336, 341-342, 347-348, 351-353, 364-365, 369-370, 374, 389, 414, 419, 423, 432, 440, 456-457, 460-463, 470, 472-474, 478, 481, 483 and 489 were cited in an IDS and submitted to the Office in several of Applicants' pending related U.S. Applications.
- [x] Documents 181-183 were cited by the Examiner in an Office Action mailed February 15, 2007, in Applicants' related U.S. Application nos. 10/992,782 and 10/992,772, and February 16, 2007 in Applicants' related U.S. Application no. 10/993,432.
- [ ] Publication(s) \_\_\_ listed on the attached Form PTO-1449 were cited in a foreign search or examination report corresponding to \_\_\_ application serial no. \_\_\_ and mailed on \_\_\_.
- [ ] Enclosed is a copy of a non-English publication(s) \_\_\_. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- [ ] Enclosed is a copy of a non-English publication(s) \_\_\_. English language publication \_\_\_ (copy enclosed) claims priority from this non-English publication.

- [x] Enclosed are abstracts of non-English publications, DE 3506703, DE 4011991, EP 0 197 266, JP 59-024244, JP 62-254034, JP 63-136002, JP 63-238166 and WO 90/10746 cited herein as documents 184, 185, 190, 191, 204-227 and 240 respectively. English abstracts are attached to documents 184, 185, and 204-227. The English abstract for DE 3506703 and EP 0 197 266 A2 and B1 is attached to DE 3506703. An English abstract of non-English publication WO 90/10746 A1, document 240, may be found on the cover page of the publication. No English abstract is readily available for document 363, Kimizuka and Kato, "DNA chip technologies and their applications: towards functional genomics," *Tanpakushitsu Kakusan Koso* **43(13)**:2004-2011 (1998). Applicants believe that this document is a review article of DNA chip technologies and their applications.

This Information Disclosure Statement is filed within any one of the following time periods:

- [ ] within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- [ ] within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;
- [ ] before the mailing date of a first office action on the merits; or
- [x] before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.


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Dated: 6-20-2007

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Respectfully submitted,  
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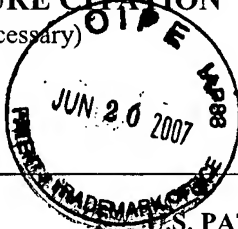
By:

  
Michael S. Tuscan, Ph.D.  
Reg. No. 43,210

**INFORMATION DISCLOSURE CITATION**

(Use several sheets if necessary)

PTO Form 1449

Attorney Docket No.  
AFFY-003/26USApplication No.  
10/694,541Applicants: Stephen P.A. FODOR *et al.*

PAGE 1 of 26

Filing Date: October 28, 2003

Group Art Unit: 1634

**U.S. PATENT DOCUMENTS**

Initial		Document No.	Date	Name	Class	Sub-Class	Filing Date
	1.	2004/0092032	05/13/2004	Winkler <i>et al.</i>			
	2.	2004/0248147	12/09/2004	Fodor <i>et al.</i>			
	3.	2005/0124000	06/09/2005	Winkler <i>et al.</i>			
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	5.	2005/0186683	08/25/2005	Winkler <i>et al.</i>			
	6.	3077780	02/19/1963	Takatsy			
	7.	3615240	10/26/1971	Sanz			
	8.	3848998	11/19/1974	Yonekura <i>et al.</i>			
	9.	3915704	10/28/1975	Limburg <i>et al.</i>			
	10.	4016855	04/12/1977	Mimata			
	11.	4031197	06/21/1977	Marinkovich			
	12.	4046513	09/06/1977	Johnson			
	13.	4162896	07/31/1979	Hosli			
	14.	4166457	09/04/1979	Jacobsen <i>et al.</i>			
	15.	4282287	08/04/1981	Giese			
	16.	4302204	11/24/1981	Wahl <i>et al.</i>			
	17.	4325913	04/20/1982	Wardlaw			
	18.	4340390	07/20/1982	Collins <i>et al.</i>			
	19.	4378333	03/29/1983	Laipply			
	20.	4392362	07/12/1983	Little			
	21.	4455089	06/19/1984	Yeung <i>et al.</i>			
	22.	4478094	10/23/1984	Salomaa <i>et al.</i>			
	23.	4486539	12/04/1984	Ranki <i>et al.</i>			
	24.	4498774	02/12/1985	Yeung <i>et al.</i>			
	25.	4505783	03/19/1985	Mase <i>et al.</i>			
	26.	4555491	11/26/1985	Spurlin <i>et al.</i>			
	27.	4562159	12/31/1985	Shafritz			
	28.	4575433	03/11/1986	Spurlin <i>et al.</i>			
	29.	4586546	05/06/1986	Mezei <i>et al.</i>			
	30.	4591567	05/27/1986	Britten <i>et al.</i>			
	31.	4607526	08/26/1987	Bachenheimer <i>et al.</i>			
	32.	4634574	01/06/1987	Spurlin <i>et al.</i>			
	33.	4656007	04/07/1987	Douchy <i>et al.</i>			
	34.	4667025	05/19/1987	Miyoshi <i>et al.</i>			

Examiner

Date Considered

**Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  <b>PTO Form 1449</b>				<b>Attorney Docket No.</b> AFFY-003/26US		<b>Application No.</b> 10/694,541			
				<b>Applicants:</b> Stephen P.A. FODOR <i>et al.</i>				<b>PAGE 2 of 26</b>	
				<b>Filing Date:</b> October 28, 2003		<b>Group Art Unit:</b> 1634			
<b>U.S. PATENT DOCUMENTS</b>									
Initial		Document No.	Date	Name	Class	Sub-Class	Filing Date		
	35.	4668476	05/26/1987	Bridgham <i>et al.</i>					
	36.	4672040	06/09/1987	Josephson					
	37.	4675283	06/23/1987	Roninson					
	38.	4675301	06/23/1987	Charneski <i>et al.</i>					
	39.	4681870	07/21/1987	Balint, Jr. <i>et al.</i>					
	40.	4689295	08/25/1987	Taber <i>et al.</i>					
	41.	4704256	11/03/1987	Hood <i>et al.</i>					
	42.	4710465	12/01/1987	Weissman <i>et al.</i>					
	43.	4720786	01/19/1988	Hara					
	44.	4725536	02/16/1988	Fritsch <i>et al.</i>					
	45.	4725537	02/16/1988	Fritsch <i>et al.</i>					
	46.	4732847	03/22/1988	Stuart <i>et al.</i>					
	47.	4738669	04/19/1988	Vlock					
	48.	4741043	04/26/1988	Bacus					
	49.	4746490	05/24/1988	Saneii					
	50.	4757437	07/12/1988	Nishimura					
	51.	4770992	09/13/1988	Van den Engh <i>et al.</i>					
	52.	4775619	10/04/1988	Urdea					
	53.	4775631	10/04/1988	Saman					
	54.	4777597	10/11/1988	Shiraishi <i>et al.</i>					
	55.	4789737	12/06/1988	Miyoshi <i>et al.</i>					
	56.	4794073	12/27/1988	Daitagupta <i>et al.</i>					
	57.	4798706	01/17/1989	Brigati					
	58.	4802101	01/31/1989	Hara					
	59.	4806312	02/21/1989	Greenquist					
	60.	4806546	02/21/1989	Carrico <i>et al.</i>					
	61.	4818492	04/04/1989	Shimizu					
	62.	4820812	04/11/1989	Miyoshi <i>et al.</i>					
	63.	4827733	05/09/1989	Dinh					
	64.	4828801	05/09/1989	Lombardy wife Alric <i>et al.</i>					
	65.	4834946	05/30/1989	Levin					
	66.	4849330	07/18/1989	Humphries <i>et al.</i>					
	67.	4849334	07/18/1989	Lorincz					
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	69.	4861420	08/29/1989	Knutti <i>et al.</i>					
	70.	4861866	08/29/1989	Durrum <i>et al.</i>					
	71.	4865967	09/12/1989	Shiraishi <i>et al.</i>					
	72.	4865968	09/12/1989	Orgel <i>et al.</i>					
	73.	4868105	09/19/1989	Urdea <i>et al.</i>					
	74.	4875169	10/17/1989	Synovec <i>et al.</i>					
	75.	4882269	11/21/1989	Schneider <i>et al.</i>					
	76.	4883750	11/28/1989	Whiteley <i>et al.</i>					
	77.	4883761	11/28/1989	Keith <i>et al.</i>					
	78.	4885250	12/05/1989	Eveleigh <i>et al.</i>					
	79.	4885696	12/05/1989	Hara					
	80.	4888274	12/19/1989	Radding <i>et al.</i>					
	81.	4888695	12/19/1989	Shiraishi <i>et al.</i>					
	82.	4894786	01/16/1990	Hara					
	83.	4906439	03/06/1990	Grenner					
	84.	4916056	04/10/1990	Brown III <i>et al.</i>					
	85.	4921348	05/01/1990	Yeung <i>et al.</i>					
	86.	4931223	06/05/1990	Bronstein <i>et al.</i>					
	87.	4937188	06/26/1990	Giese <i>et al.</i>					
	88.	4937593	06/26/1990	Prats					
	89.	4939667	07/03/1990	Hara <i>et al.</i>					
	90.	4941092	07/10/1990	Hara <i>et al.</i>					
	91.	4942124	07/17/1990	Church					
	92.	4943032	07/24/1990	Zdeblick					
	93.	4944922	07/31/1990	Hayashi					
	94.	4948565	08/14/1990	Bemis <i>et al.</i>					
	95.	4950744	08/21/1990	Dattagupta <i>et al.</i>					
	96.	4952512	08/28/1990	Loskutoff <i>et al.</i>					
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	98.	4958281	09/18/1990	Hara					
	99.	4959309	09/25/1990	Dattagupta <i>et al.</i>					
	100.	4960691	10/02/1990	Gordon <i>et al.</i>					
	101.	4962770	10/16/1990	Agee <i>et al.</i>					
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	103.	4965725	10/23/1990	Rutenberg					
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	107.	4982326	01/01/1991	Kaneko					
	108.	4984857	01/15/1991	Yeung <i>et al.</i>					
	109.	4996646	02/26/1991	Farrington					
	110.	4997521	03/05/1991	Howe <i>et al.</i>					
	111.	5008080	04/16/1991	Brown III <i>et al.</i>					
	112.	5053454	10/01/1991	Judd					
	113.	5059398	10/22/1991	Kenney					
	114.	5063081	11/05/1991	Cozzette <i>et al.</i>					
	115.	5087558	02/11/1992	Webster Jr.					
	116.	5089000	02/18/1992	Agee <i>et al.</i>					
	117.	5093245	03/03/1992	Keith <i>et al.</i>					
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	119.	5094939	03/10/1992	Okada <i>et al.</i>					
	120.	5110555	05/05/1992	Moore <i>et al.</i>					
	121.	5120643	06/09/1992	Ching <i>et al.</i>					
	122.	5143849	09/01/1992	Barry <i>et al.</i>					
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	132.	5273632	12/28/1993	Stockham <i>et al.</i>					
	133.	5279558	01/18/1994	Kriesel					
	134.	5288514	02/22/1994	Ellman					
	135.	5297288	03/22/1994	Hemminger <i>et al.</i>					
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	137.	5306618	04/26/1994	Prober <i>et al.</i>			
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	139.	5332666	07/26/1994	Prober <i>et al.</i>			
	140.	5338688	08/16/1994	Deeg <i>et al.</i>			
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	142.	5362866	11/08/1994	Arnold, Jr.			
	143.	5378638	01/03/1995	Deeg <i>et al.</i>			
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	147.	5455008	10/03/1995	Earley <i>et al.</i>			
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	149.	5470710	11/28/1995	Weiss <i>et al.</i>			
	150.	5503980	04/02/1996	Cantor			
	151.	5521065	05/28/1996	Whiteley <i>et al.</i>			
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	153.	5545531	08/13/1996	Rava <i>et al.</i>			
	154.	5556749	09/17/1996	Mitsubishi <i>et al.</i>			
	155.	5591578	01/07/1997	Meade <i>et al.</i>			
	156.	5599695	02/04/1997	Pease <i>et al.</i>			
	157.	5624711	04/29/1997	Sundberg <i>et al.</i>			
	158.	5631734	05/20/1997	Stern <i>et al.</i>			
	159.	5665549	09/09/1997	Pinkel <i>et al.</i>			
	160.	5667940	09/16/1997	Hsue <i>et al.</i>			
	161.	5677195	10/14/1997	Winkler <i>et al.</i>			
	162.	5695522	12/09/1997	LeMaire, III <i>et al.</i>			
	163.	5727098	03/10/1998	Jacobson			
	164.	5770151	06/23/1998	Roach <i>et al.</i>			
	165.	5795716	08/18/1998	Chee <i>et al.</i>			
	166.	5885837	03/23/1999	Winkler <i>et al.</i>			
	167.	6040193	03/21/2000	Winkler <i>et al.</i>			
	168.	6136269	10/24/2000	Winkler <i>et al.</i>			
	169.	6200748	03/13/2001	Smith <i>et al.</i>			

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